

APPROVED BY FORESTRY

Donna

10-11-2018

DATE

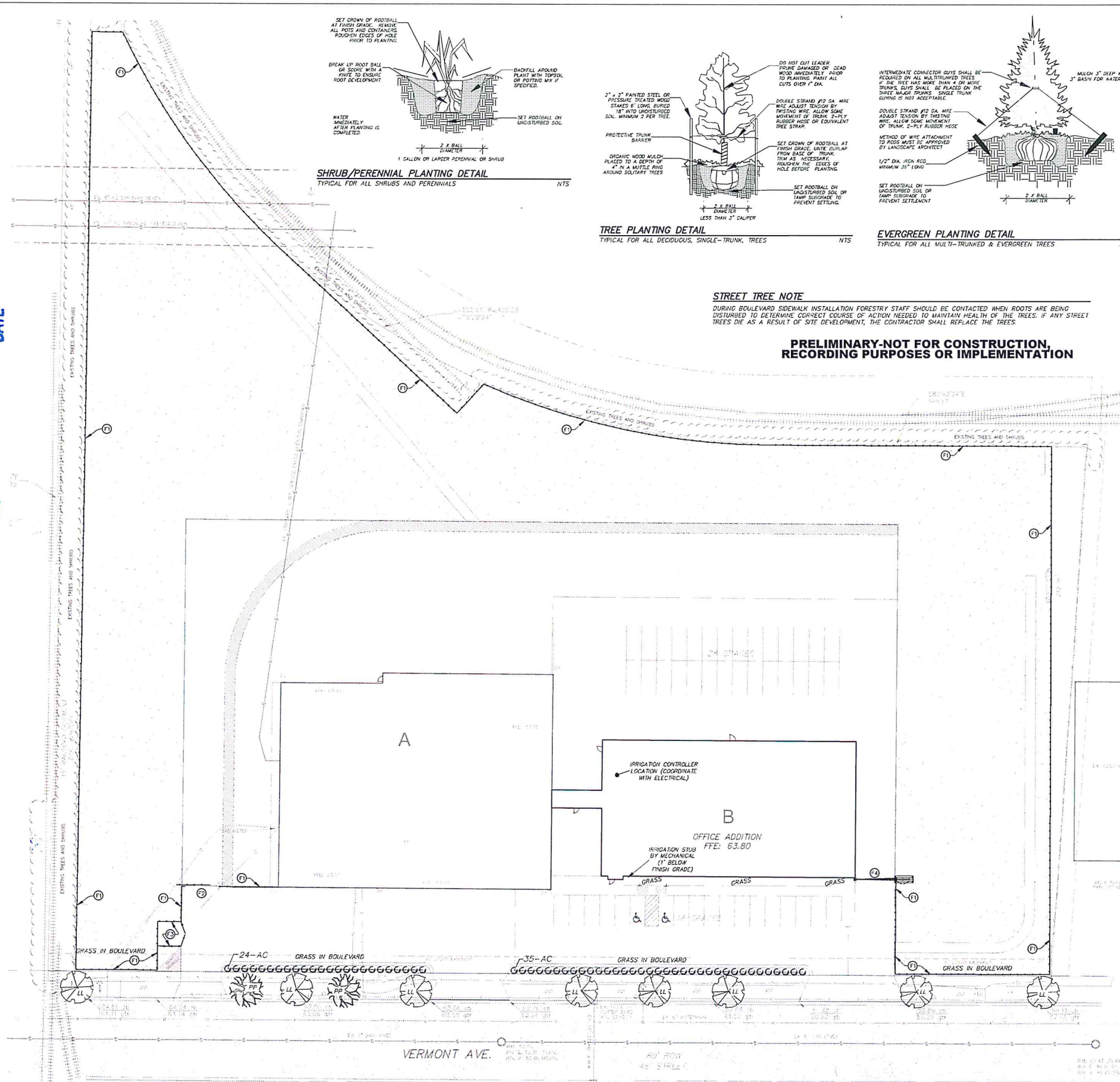
APPROVED BY PLANNING

Wm. H. H. H.

10-11-2018

DATE

2018-076



WARRANTY / DISCLAIMER
The designs represented in these plans are in accordance with standard practices of civil engineering. However, neither Swenson, Hagen & Co. nor its personnel can or do warrant that these plans are suitable for the specific site, or that they will be properly followed or that the construction will be completed in accordance with the plans. The user assumes all responsibility for the proper use of these plans.

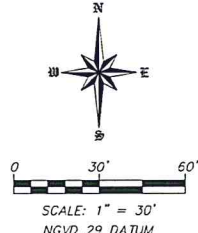
SAFETY NOTICE TO CONTRACTOR
In accordance with generally accepted construction practices, the contractor will be solely and completely responsible for the safety of the job site, including safety of all persons and property during performance of the work. The contractor will also be responsible for the safety of the job site and for the safety of the public. The contractor will also be responsible for the safety of the job site and for the safety of the public.

NOTICE TO CONTRACTOR
The location of existing underground utilities are shown in an approximate manner only and are not to be relied upon for the location of any underground utilities. The contractor shall determine the exact location of all existing utilities before commencing work and agree to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

CALL BEFORE YOU DIG
NORTH DAKOTA
UTILITIES UNDERGROUND LOCATION SERVICE
1-800-795-0555

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- GENERAL LANDSCAPING NOTES FOR ALL SHEETS**
- 1. ALL CONTRACTORS WISHING TO SUBMIT BIDS FOR THIS LANDSCAPING PROJECT SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS.
 - 2. PROTECT THE IMPROVEMENTS ON SITE AND ON THE ADJOINING PROPERTIES. PROVIDE BARRICADES, COVERINGS OR OTHER TYPE OF PROTECTION AS NECESSARY TO PREVENT DAMAGE AND TO SAFEGUARD AGAINST INJURY TO EXISTING UTILITIES.
 - 3. DAMAGE THAT OCCURS TO PLANTS DURING TRANSPORTATION AND INSTALLATION WILL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
 - 4. ALL PLANTING BEDS SHALL BE INSTALLED WITH 3" OF 3" CRUSHED ROCK MULCH, LANDSCAPE FABRIC WITH A MINIMUM WEIGHT OF 4 OZ./SQ. YD. AND WHERE NECESSARY, 6" COMMERCIAL GRADE BLACK PLASTIC EDGING TO CONTAIN THE PLANTING BED.
 - 5. ALL LANDSCAPE PLANTINGS ARE TO BE WATERED BY THE LANDSCAPE CONTRACTOR THE SAME DAY THAT THE PLANTING OCCURS. IF WATER IS NOT AVAILABLE AT THE BUILDING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE ALTERNATIVE METHODS FOR WATERING.
 - 6. SOLITARY TREES DO NOT NEED TO BE EDGED AROUND, HOWEVER ORGANIC WOOD MULCH SHALL BE PLACED AROUND THE TREE IN A MUTILLE RING THAT CONFORMS TO THE DETAIL PROVIDED FOR TREE PLANTINGS.
 - 7. CONTRACTOR SHALL PROVIDE WRITTEN WARRANTIES CONFIRMING THE FOLLOWING:
 - FURNISHED TREES GUARANTEED TO LIVE AND REMAIN STRONG, VIGOROUS, AND HEALTHY CONDITION FOR 365 DAYS MINIMUM FROM DATE LANDSCAPE INSTALLATION IS ACCEPTED AS COMPLETED.
 - 8. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND CARING FOR ALL PLANT MATERIAL, AND OTHER LANDSCAPING IMPROVEMENTS UNTIL THE DATE OF FINAL INSPECTION AND APPROVAL.
- TOPSOIL NOTES**
- 1. ALL PORTIONS OF THE SITE NOT RECEIVING CONCRETE, CURB & GUTTER OR OTHER IMPROVEMENTS SHALL BE COVERED WITH A MINIMUM OF 4" OF TOPSOIL AND SEEDED ACCORDING TO SPECIFICATIONS.
 - 2. TOPSOIL SHALL BE IMPORTED AND PLACED AND SEEDED AS SOON AS PRACTICAL TO MINIMIZE WIND AND WATER EROSION. BACKFILL BEHIND CURB AND GUTTERS AND SIDEWALK AS SOON AS REASONABLE TO PREVENT STANDING WATER AND PROTECT THE IMPROVEMENTS.
- SEEDING NOTES**
- 1. SEEDING SHALL CONFORM TO THE MOST RECENT VERSION OF THE CITY OF BISMARCK CONSTRUCTION SPECIFICATIONS FOR MUNICIPAL PUBLIC WORKS IMPROVEMENTS FOR SEEDING EXCEPT WHERE MODIFIED HEREIN.
 - 2. CLEAR AND GRUB SITE BEFORE SEEDING ENSURING THAT THE SITE IS IN A SMOOTH CONDITION WITH NO DEBRIS OR ROCKS LARGER THAN 2" IN DIAMETER.
 - 3. FERTILIZE SOIL DURING THE SEEDING PROCESS USING AN APPROPRIATE APPLICATION PROCESS. FERTILIZER SHALL BE 10-10-10 AND APPLIED AT A RATE OF 4 LBS. PER 1000 SQUARE FEET.
 - 4. SEED SHALL BE CLASS II FOR SUNNY AREAS PER CITY OF BISMARCK SPECIFICATIONS AND DRILL SEED TO A DEPTH OF 1/4" TO 1/2". AFTER SEED HAS BEEN SOWN, THE SOIL SHALL BE REPACKED IMMEDIATELY AFTER THE SEED IS APPLIED TO FIRM THE SOIL AROUND THE SEED. NO SEED SHALL BE PLACED ON DAYS WHERE THE WIND IS STRONG ENOUGH TO PREVENT IT FROM BEING PROPERLY SEEDING INTO THE SOIL.
 - 5. SEED MUST SHOW A DENSITY OF 20 TO 30 SEEDLINGS PER SQUARE FOOT BEFORE ACCEPTANCE WILL OCCUR. THE CONTRACTOR SHALL FURNISH AND REPLACE WITHOUT ADDITIONAL COMPENSATION THEREFORE, ANY SEED FOR AREAS THAT HAVE NOT GERMINATED, HAVE DIED, OR ARE DAMAGED TO THE EXTENT THAT REPLACEMENT IS REQUIRED TO CONFORM TO THE REQUIREMENTS OUTLINED ABOVE. THE CONTRACT WARRANTY PERIOD SHALL ALSO APPLY TO THIS ITEM.
 - 6. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY EROSION SCARS OR WASHOUTS UNTIL THE DATE THAT FINAL SEED STAND IS ACCEPTED. SEE EROSION CONTROL PLAN FOR EROSION CONTROL METHODS.
 - 7. ALL PORTIONS OF THE SITE THAT ARE TO BE SEEDING SHALL BE HYDROMULCHED. HYDROMULCH SHALL BE A WOOD CELLULOSE FIBER MULCH. MULCH SHALL BE FREE OF GERMINATION OR GROWTH INHIBITIVE SUBSTANCES, AS WELL AS ANY NOXIOUS WEED SEED. MULCH SHALL BE TREATED WITH A TACK AND FIBER TO ENHANCE SEED AND MULCH PLACEMENT AND ADHERENCE TO THE SOIL. THE HYDROMULCH SHALL BE APPLIED AT A RATE OF 2000 LBS./ACRE USING HYDRAULIC SPRAY EQUIPMENT.
- FENCING NOTES**
- 1. INSTALL 6" HIGH CHAIN LINK FENCE WITH 3 CONTINUOUS BARBED WIRE STRANDS ON TOP ANGLED OUT AT 45°. SEE DETAILS SHEET C6.0.
 - 2. INSTALL 20" ALUMINUM SLIDE GATE WITH LATCH. SEE DETAILS SHEET C6.0.
 - 3. A 6" HIGH CHAIN LINK DUMPSTER ENCLOSURE WITH SLATS AND SWING GATE OPENING TO THE EAST SHALL BE INSTALLED WHERE DEPICTED ON THE PLANS.
 - 4. INSTALL 24" ALUMINUM VERTICAL PIVOT GATE SYSTEM WITH TILT-A-WAY HYDRAULIC OPERATOR AS MANUFACTURED BY IDEAL MANUFACTURING AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. COORDINATE WITH ELECTRICAL FOR ELECTRICAL CONNECTION AND PROGRAMMING.
- PLANT PALETTE**
- | SYM. | COMMON NAME | SCIENTIFIC NAME | SIZE | QTY. |
|------|-----------------|-----------------|-------------|------|
| LL | AMERICAN LINDEN | Tilia cordata | 1-1/2" Cal. | 8 |
| PP | PONDEROSA PINE | Pinus ponderosa | 1-1/2" Cal. | 2 |
| AC | ALPINE CURRANT | Ribes alpinum | 2 Gallon | 59 |
- LANDSCAPING REQUIREMENTS**
- REQUIRED INTERIOR LANDSCAPING: N/A
PROVIDED INTERIOR LANDSCAPING: N/A
- REQUIRED STREET TREES: 3 PER 100 FEET = 18 TREES
PROVIDED STREET TREES: 7 EXISTING, 10 ADDITIONAL
- DUE TO CONFLICTS OF UTILITIES AND DRIVEWAYS, A WAIVER IS REQUESTED TO REDUCE STREET TREES BY ONE TREE.
- REQUIRED PERIMETER PARKING: CONTINUOUS HEDGE
PROVIDED PERIMETER PARKING: CONTINUOUS HEDGE
- IRRIGATION PERFORMANCE SPECIFICATION**
- 1. LOCATION OF EXISTING IRRIGATION ON SITE IS UNKNOWN. REMOVE EXISTING SYSTEM AND DESIGN NEW SYSTEM TO IRRIGATE PLANTING BEDS, AREA BETWEEN BUILDING AND SIDEWALK, AND GRASS BOULEVARD.
 - 2. CONTRACTOR SHALL DESIGN AND PROVIDE A PRICE FOR AN IRRIGATION SYSTEM ON THIS SITE. WATER CONNECTION SHALL BE BY MECHANICAL AND CONNECTION WILL BE ONE FOOT BELOW FINISH GRADE AT AREA INDICATED THIS SHEET. ALL VALVING SHALL BE IN GROUND BOXES.
 - 3. SYSTEM SHALL BE DESIGNED FOR 100% HEAD TO HEAD COVERAGE PROVIDING AT LEAST 1" OF MOISTURE PER WEEK. OVERSPRAY SHALL BE MINIMIZED ONTO PAVEMENT, SIDEWALKS, AND BUILDINGS. QUICK COUPLERS SHALL BE PROVIDED FOR WINTERIZATION.
 - 4. IRRIGATION CONTRACTOR SHALL MAKE ANY FIELD ADJUSTMENTS NECESSARY TO INSURE THAT THE COVERAGE IS HEAD TO HEAD. ALL CHANGES MUST BE DOCUMENTED. UPON COMPLETION OF THE JOB AN AS BUILT DRAWING INCLUDING PIPE SIZES, VALVE LOCATIONS AND HEAD LOCATIONS MUST BE GIVEN TO THE OWNER OR OWNERS REPRESENTATIVE.
 - 5. IRRIGATION CONTRACTOR SHALL FOLLOW ALL RECOMMENDED PRACTICES AS SET FORTH BY THE MANUFACTURER'S SPECIFICATIONS AND THE IRRIGATION ASSOCIATION.
 - 6. IRRIGATION CONTRACTOR SHALL INCLUDE THE FIRST YEARS WINTERIZATION IN THE COST OF THE PROJECT.
- IRRIGATION CONDUITS**
- 1. CONTRACTOR SHALL INSTALL IRRIGATION CONDUITS TWO FEET BELOW FINISH GRADE ACROSS PAVED AREAS TO ISLANDS AND ACROSS DRIVEWAYS. CONDUITS SHALL BE TWICE THE SIZE OF THE LINE BEING INSTALLED. CONTRACTOR SHALL PROVIDE ASBUILT DRAWINGS OF CONDUITS WITH MINIMUM TWO DIMENSIONS TO KNOWN SURFACE FEATURES.



FOR REGULATORY REVIEW ONLY - NOT FOR CONSTRUCTION

REVISIONS		
MARK	DATE	DESCRIPTION

Construction Documents

SEPTEMBER 28, 2018
J2 Project No. J21816

Montana-Dakota Utilities Company
Vermont Complex

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Landscape and Fencing Plan

C5.0